## Amendments to the claims:

	Cancel claims 2, 3, 5 and 7-17.
	Amend claims 1, 4 and 6.
1	1. (Currently Amended) A magnetic read head that has a head surface comprising:
2	a read sensor that forms a portion of said head surface and has first and second side walls
3	which extend into the read head from said head surface;
ູ4	nonmagnetic electrically insulative first and second read gap layers wherein the first read gap
5	layer includes a read gap material layer and first and second refill gap layers;
6	the read sensor being located between the first and second read gap layers;
7	the read gap material layer having first and second depressions which extend laterally from
8	the first and second side walls respectively of the sensor;
9	the first and second refill gap layers being disposed in the first and second depressions and
10	engaging a bottom portion of the first side wall and engaging a bottom portion of the second side
11	wall respectively;
12	the first read gap layer having first and second portions which extend laterally from the first
13	and second side walls of the sensor and a third portion which engages a bottom surface of the sensor
14	and is located between said first and second portions;
15	each of said first and second portions having a thickness which is greater than a thickness of
16	said third portion; [[and]]
17	first and second hard bias layers interfacing the first and second refill gap layers respectively
18	and the top portion of the first and second side walls respectively;
19	said first and second lead layers interfacing the first and second hard bias layers respectively
20	each of the first and second hard bias layers and the sensor having a top surface;
21	the top surfaces of the first and second hard bias layers and the sensor lying within a commor
22	plane;
23	a first lead layer electrically connected to a top portion of the first side wall and a second lead
24	layer electrically connected to a top portion of the second side wall[[.]];
25	a ferromagnetic first shield layer;
26	the first read gap layer interfacing the first shield layer;

a ferromagnetic second shield layer interfacing the second read gap layer.

the second read gap layer interfacing the sensor; and

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## 2.-3. (Cancelled)

1	4. (Currently Amended) A magnetic head assembly that has a head surface
2	comprising:
3	a write head;
4	a read head adjacent the write head comprising:
5	a read sensor that forms a portion of said head surface and that has first and second
6	side walls which extend into the read head from said head surface;
7	nonmagnetic electrically insulative first and second read gap layers wherein the firs
8	read gap layer includes a read gap material layer and first and second refill gap layers;
9	the read sensor being located between the first and second read gap layers;
10	the first read gap material layer having first and second depressions which extend
11	laterally from the first and second side walls respectively of the sensor;
12	the first and second refill gap layers being disposed in the first and second
13	depressions and engaging a bottom portion of the first side wall and engaging a bottom
14	portion of the second side wall respectively;
15	the first read gap layer having first and second portions which extend laterally from
16	the first and second side walls of the sensor and a third portion which is between the first and
17	second portions and is located between the sensor and the first shield layer;
18	each of said first and second portions having a thickness which is greater than
19	thickness of said third portion;
20	first and second hard bias layers interfacing the first and second refill gap layer
21	respectively and the top portion of the first and second side walls respectively;
22	said first and second lead layers interfacing the first and second hard bias layer
23	respectively.
24	each of the first and second hard bias layers and the sensor having a top surface;
25	the top surfaces of the first and second hard bias layers and the sensor lying within
26	a common plane;
27	a first lead layer electrically connected to a top portion of the first side wall and
28	second lead layer electrically connected to a top portion of the second side wall;
29	a ferromagnetic first shield layer;
30	the first read gap layer interfacing the first shield layer;
31	the second read gap layer interfacing the sensor; and
32	a ferromagnetic second shield layer interfacing the second read gap layer.

## 5. (Cancelled)

1	6. (Currently Amended) A magnetic disk drive comprising:
2	at least one magnetic head assembly[[;]] that has a head surface;
3	the magnetic head assembly having a write head and a read head;
4	the read head including:
.5	a read sensor that forms a portion of said head surface and has first and second side
6	walls which extend into the read head from said head surface;
7	nonmagnetic electrically insulative first and second read gap layers wherein the first
8	read gap layer includes a read gap material layer and first and second refill gap layers;
9	the read sensor being located between the first and second read gap layers;
10	the read gap material layer having first and second depressions which extend laterally
11	from the first and second side walls respectively of the sensor;
12	the first and second refill gap layers being disposed in the first and second
13	depressions and engaging a bottom portion of the first side wall and engaging a bottom
14	portion of the second side wall respectively;
15	the first read gap layer having first and second portions which extend laterally from
16	the first and second side walls of the sensor and a third portion which is between the first and
17	second portions and is located between the sensor and the first shield layer;
18	each of said first and second portions having a thickness which is greater than a
19	thickness of said third portion;
20	first and second hard bias layers interfacing the first and second refill gap layers
21	respectively and the top portion of the first and second side walls respectively;
22	said first and second lead layers interfacing the first and second hard bias layers
23	respectively;
24	each of the first and second hard bias layers and the sensor having a top surface;
25	the top surfaces of the first and second hard bias layers and the sensor lying within
26	a common plane;
27	a first lead layer electrically connected to a top portion of the first side wall and a
28	second lead layer electrically connected to a top portion of the second side wall;
29	a ferromagnetic first shield layer;

00	the first read gap layer interfacing the first shield layer;
31	the second read gap layer interfacing the sensor; and
32	a ferromagnetic second shield layer interfacing the second read gap layer;
33	a housing;
34	a magnetic medium supported in the housing;
35	a support mounted in the housing for supporting the magnetic head assembly with said head
36	surface facing the magnetic medium so that the magnetic head assembly is in a transducing
37	relationship with the magnetic medium;
88	a motor for moving the magnetic medium; and
39	a processor connected to the magnetic head assembly and to the motor for exchanging signals
10	with the magnetic head assembly and for controlling movement of the magnetic medium.

## 7.- 17. (Cancelled)